

Name \_\_\_\_\_

Mrs. Roubos

Date \_\_\_\_\_

8R Period \_\_\_\_\_

## Take home Quiz #8

**\*\*Show all work where possible\*\***

Due: \_\_\_\_\_

**\*\*5 points each\*\***

|   |  |
|---|--|
| 1) Which one of the following is the translation of:<br>Four times a number increased by 3 is -89.<br><br>A) $-3n + 4 = -89$<br><br>B) $4n - 3 = -89$<br><br>C) $4n + 3 = -89$<br><br>D) $4 + 3n = -89$ | 2) Which one of the following is the translation of:<br>Five more than three-fourths a number is -19.<br><br>A) $-\frac{3}{4}n + 5 = -19$<br><br>B) $\frac{3}{4}n + 5 = -19$<br><br>C) $5n - \frac{3}{4} = -19$<br><br>D) $5 - \frac{3}{4}n = -19$ |
| 3) Solve: $\frac{1}{4}x + 15 = 2$   | 4) Solve: $-0.5x = 3.6$  |
| 5) Solve: $\frac{d}{3} - 10 = -2$   | 6) Solve: $8 - 3m = 26$  |
| 7) Solve: $\frac{7}{9}w = 56$   | 8) Solve: $3x - 4 = 18 + 5x$   |
| 9) Solve: $4y - 2 = -6y + 28$   | 10) Solve: $-3x + 3 = -15 + 6x$  |

11) Solve:  $-2(x - 1) = 15$

12) Solve:  $0.3(r + 2) = -0.1(-2r - 4)$

13) Simplify the expression:  $\frac{7^6}{7^6} \cdot 5^0$

14) Write  $2.13 \times 10^{-4}$  in standard form.

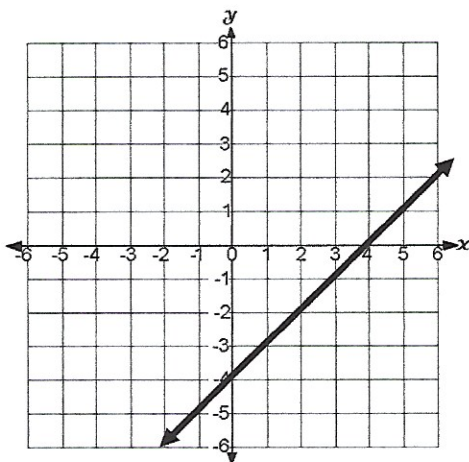
15) In  $\triangle ABC$ , the measure of  $\angle A$  is  $31^\circ$  and the measure of  $\angle C$  is  $90^\circ$ . What is the measure of  $\angle B$ ?

16) What is the slope of the line through the following two points?  $(4, 8)$  and  $(7, 14)$

17) What is the slope of a vertical line?

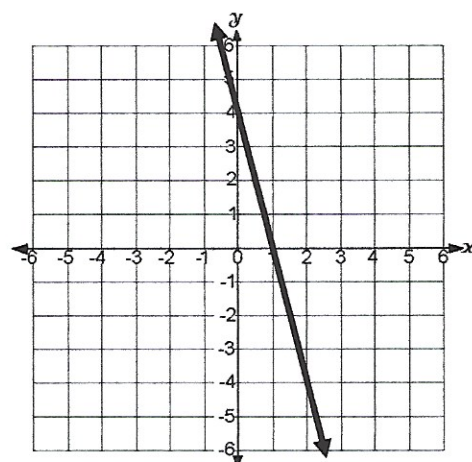
18) What is the slope of a horizontal line?

19) Determine the y-intercept of the line graphed below.



b = \_\_\_\_\_

20) Determine the slope of the line graphed below.



m = \_\_\_\_\_